

Claims:

1. A memory device comprising:

an integrated circuit die including a memory array and having a first surface; and

a passive component mounted overlying the first surface of the integrated circuit

5 die and electrically coupled to the integrated circuit die.

2. The memory device of claim 1, wherein the passive component is mounted to

the integrated circuit die with an epoxy material.

10 3. The memory device of claim 2, wherein the epoxy material between the

passive component and the integrated circuit die is less than about 0.050 millimeters in

thickness.

15 4. The memory device of claim 1, wherein the passive component is mounted to

the integrated circuit die with a conductive material.

20 5. The memory device of claim 1, wherein the passive component includes a

capacitor or an inductor.

6. The memory device of claim 1, further comprising:

a substrate, wherein the integrated circuit die is mounted to the substrate.

7. The memory device of claim 6, wherein the integrated circuit is mounted to the substrate with a non-conductive material.

8. The memory device of claim 6, further comprising a first wire bond electrically coupling at least a portion of the integrated circuit to the substrate.

9. The memory device of claim 8, further comprising a second wire bond electrically coupling at least a portion of the passive component to the substrate.

10. The memory device of claim 8, further comprising a second wire bond electrically coupling at least a portion of the passive component to the integrated circuit die.

11. The memory device of claim 1, wherein the integrated circuit die includes a flash memory array.

12. The memory device of claim 1, further comprising a voltage regulator coupled to the integrated circuit die, wherein at least a portion of the voltage regulator is mounted to the integrated circuit die.

13. A method comprising:

forming a substrate;

mounting an integrated circuit die on said substrate;

mounting a passive component overlying the substrate; and

5       electrically coupling the passive component to at least a portion of the integrated circuit die.

14. The method of claim 13, further comprising adhesively attaching the passive

component to the integrated circuit die.

15. The method of claim 14, further comprising adhesively attaching the passive

component to the integrated circuit die with a non-conductive adhesive.

16. The method of claim 13 including wire bonding the passive component to the

substrate.

17. The method of claim 13 including wire bonding the passive component to the

integrated circuit die.

18. A method comprising:  
molding an integrated circuit die and at least one passive component of a  
voltage regulator circuit into a package, the integrated circuit die including a non-volatile  
memory array.

5

19. The method of claim 18, further comprising mounting the at least one passive component to the integrated circuit die.

20. The method of claim 18, further comprising forming a wire bond to electrically couple the at least one passive component and the integrated circuit.